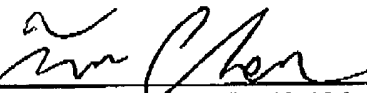


**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): George D. Papasouliotis; Bart van Schravendijk; Robert D. Tas; Patrick A. Van Cleemput  
Assignee: Novellus Systems, Inc.  
Title: Process For Depositing F-Doped Silica Glass In High Aspect Ratio Structures  
Serial No.: 10/035,773 Filing Date: December 21, 2001  
Examiner: Unknown Group Art Unit: 1745  
Docket No.: M-5091-2P US

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I hereby certify that the following executed Power of Attorney By Assignee of Entire Interest and Change in Correspondence Address and accompanying documents (6 pages) are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

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Tom Chen, Reg. No. 42,406Total No. of Pages: 7**PLEASE CONFIRM RECEIPT OF THIS PAPER BY  
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Serial No. 10/035,773



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MACPHERSON KWOK CHEN

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NO. 626 T-001/P. 2-842

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): George D. Papasouliotis; Bart van Schravendijk; Robert D. Tas; Patrick A. Van Cleemput  
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COMMISSIONER FOR PATENTS  
Alexandria, VA 22313-1450

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST**

Sir:

The above-identified assignee, hereby revokes all powers of attorney previously given and appoints the attorney(s) and/or agent(s) identified below to prosecute the above-identified application and to transact all business in the United States Patent and Trademark Office in connection therewith:

**Customer No. 32605**

Please address all correspondence and telephone calls regarding this application to:

Tom Chen  
MacPherson Kwok Chen & Heid LLP  
1762 Technology Drive, Suite 226  
San Jose, CA 95110  
Phone: (949) 752-7040  
Fax: (408) 392-9262

**ASSIGNEE CERTIFICATION UNDER 37 CFR 3.73(B)**

The undersigned representative of the above-identified assignee certifies that the above-identified assignee is the assignee of the entire right, title and interest in the above-identified

patent application/patent by virtue of a chain of title from the inventor(s) of the above-identified patent application/patent to the above-identified assignee as shown below:

1. From: George D. Papasoulionis To: Novellus Systems, Inc.
2. From: Bart van Schravendijk To: Novellus Systems, Inc.
3. From: Robert D. Tas To: Novellus Systems, Inc.
4. From: Patrick A. Van Cleemput To: Novellus Systems, Inc.

The document was submitted to the Patent and Trademark Office for recordation on December 21, 2001. A copy of the document is attached.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified assignee.

Date: 03/22/04

Novellus Systems, Inc.

By: [Signature]

(Signature)

Name: W. C. M. VAN DEN HOFK

(Printed or Typed Name)

Title: C.T.O. And F.V.P.

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, we

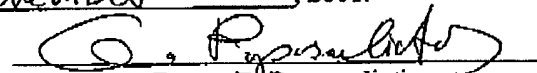
George D. Papasouliotis	of	5642 Stevens Creek Blvd. #606, Cupertino, CA 95014
Robert D. Tas	of	18435 Old Monterey Road, Morgan Hill, CA 95037
Patrick A. Van Cleemput	of	376 Flora Vista Avenue, Sunnyvale, CA 94086
Bart van Schravendijk	of	741 Islay Court, Sunnyvale, CA 94087

hereby sell, assign and transfer to Novellus Systems, Inc., a California corporation, having a place of business at 4000 North First Street, San Jose, CA 95134, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**PROCESS FOR DEPOSITING F-DOPED SILICA GLASS IN HIGH ASPECT RATIO STRUCTURES**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 27 day of November, 2001.

  
George D. Papasouliotis

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared George D. Papasouliotis personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
SIGNATURE OF NOTARY

Executed this 27 day of November, 2001.  
Robert D. TasState of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared Robert D. Tas personally known to me or proved to me on the basis of  
satisfactory evidence to be the person whose name is subscribed to the within instrument and  
acknowledged to me that he executed the same in his authorized capacity, and that by his  
signature on the instrument the person, or the entity upon behalf of which the person acted,  
executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
SIGNATURE OF NOTARY

APR. 12. 2004 3:04PM


MACPHERSON KWOK CHEN

NO. 626 P. 6

Attorney's Docket No.: M-5091-2P US

Executed this 20<sup>th</sup> day of December, 2001

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

  
Ratukeya A. Van Cleemput

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared Patrick A. Van Cleemput personally known to me or proved to me on the  
basis of satisfactory evidence to be the person whose name is subscribed to the within  
instrument and acknowledged to me that he executed the same in his authorized capacity, and  
that by his signature on the instrument the person, or the entity upon behalf of which the  
person acted, executed the instrument.

WITNESS my hand and official seal.

**SIGNATURE OF NOTARY**

APR. 12. 2004 3:04PM

MACPHERSON KWOK CHEN

Attorney's Docket No.: M-5091-2P US

Executed this 7<sup>th</sup> day of December, 2001.

~~07-2-91~~  
Bart van Schravendijk

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_ before me, \_\_\_\_\_  
personally appeared Bart van Schravendijk personally known to me or proved to me on the  
basis of satisfactory evidence to be the person whose name is subscribed to the within  
instrument and acknowledged to me that he executed the same in his authorized capacity, and  
that by his signature on the instrument the person, or the entity upon behalf of which the  
person acted, executed the instrument.

WITNESS my hand and official seal.

**SIGNATURE OF NOTARY**